

CLAIMS

1. A die for forming a honeycomb body, the die comprising a structure provided with:

5 groovy slits on a front face thereof, the slits being formed by cell blocks; and

back holes on a back face thereof, each hole being communicatively connected with the slit,

10 characterized in that the die is made of cemented carbide having wear resistance, the cemented carbide being formed by compacting, followed by sintering at high temperature, metal carbide powder of transition metal element series with a iron group metal binder having toughness, a connection area ratio of the back hole and the cell block being 35 to 65%.

15 2. A die for forming a honeycomb body according to claim 1, wherein a height of the die is 2 to 5 mm.

3. A jig for forming a honeycomb body, the jig comprising:

20 a die having a structure provided with groovy slits on a front face thereof, the slits being formed by cell blocks, and provided with back holes on a back face thereof, each hole being communicatively connected with the slit;

a holding plate fixing a profile and size of the honeycomb body; and

25 a back holding plate controlling an amount of kneaded clay flowing into the back holes uniformly,

characterized in that the die and the holding plate

are made of cemented carbide having wear resistance.

4. A jig for forming a honeycomb body according to claim 3, wherein the back holding plate is made of cemented carbide having wear resistance.

5 5. A jig for forming a honeycomb body according to claim 3 or 4, wherein only the portions of the holding plate and the back holding plate are made of cemented carbide having wear resistance, the portions being in contact with the kneaded clay.

10 6. A jig for forming a honeycomb body according to any of claims 3 to 5, wherein the cemented carbide is formed by compacting, followed by sintering at high temperature, metal carbide powder of transition metal element series with an iron group metal binder having toughness.

15 7. A jig for forming a honeycomb body according to any of claims 3 to 6, wherein a connection area ratio of the back hole and the cell block is 35 to 65%.

8. A jig for forming a honeycomb body according to any of claims 3 to 7, wherein a height of the cell blocks is 2
20 to 5 mm.